3 p. m., and 4 p. m., local time. These hours were selected found that a rise of 5° in the temperature should cause a for the readings to bring the series into harmony with the old records. The readings of the station barometer were corrected for temperature, instrumental error, and elevation; the readings of the other two were corrected for elevation only by adding .030 inch. The results are given in the accompanying table. For a description of the two old barometers the reader is referred to the article cited above in the August RE-

as follows, viz:

	inches.
United States Weather Bureau No. 274	30, 014
Hancock-Plageman barometer	
Evelyn barometer	29.954

From this it appears that the Evelyn barometer is .060 inches too low, and the Hancock-Plageman barometer .016 inches too low. This difference, however, may be largely due to deterioration of the old instruments, especially in the case of the Evelyn barometer which has now been in use over half

Then again we may compare the means of this series with the corresponding March means given in Table I of the article in the August Review, bearing in mind, however, that the Evelyn observations were not corrected for elevation, while the others were. It will be observed that the means in the accompanying table are invariably lower than Mr. Evelyn's means, the average difference being .032 inch, which would be greater, perhaps .062 inch, if we make allowance for the correction for elevation. In the case of the Hancock record the difference is very slight, only .007 inch on the average. His 9 a. m. mean is .018 inch lower than mine, our 10 a. m. means are exactly the same, while my 3 p. m. mean is .004 inch lower than his.

It would appear, therefore, from these figures that the records compiled by Messrs. Evelyn, Hancock, and Plageman are quite trustworthy in view of the circumstances under which they were made.

The above remarks by Mr. Alexander, in connection with the data in Table 1, p. 331, Monthly Weather Review for August, 1900, indicate very clearly a deterioration in the Evelyn barometer at some time subsequent to 1868. The exact time and also the nature of the deterioration can not be determined from the data at hand, but the original records should give us some information on these points.

The following are the averages of Mr. Alexander's readings:

Time.	Mean observed pressure.			W _~ B	w. B
	Evelyn.	Hancock.	W. B. 274.	Hancock.	Evelyn,
8 a. m	29, 938 29, 966 29, 980 29, 977 29, 952 29, 985 39, 927	80.005 80.025 80.034 80.015 29.980 29.966 29.966	80.035 30.048 80.054 80.031 29.990 29.975 29.978	+.030 +.023 +.020 +.018 +.010 +.009 +.012	+.097 +.082 +.074 054 038 040 +.045

We note at once that both the Evelyn and Hancock barometers, as compared with the Weather Bureau barometer, stood higher during the p. m. than during the a. m. This is what we would expect when we remember that only the Weather Bureau barometer has been corrected for temperature, and the attached thermometers averaged about 5° higher during the p. m. than at 8 a. m.

In the Smithsonian Meteorological and Physical Tables, 1859, is a table of corrections for temperature, to be applied to barometers with glass or wooden scales, from which it is

corresponding rise of 0.014 in the mercury in the barometer. As will be seen, the rise in the case of the Hancock barometer is somewhat greater than this, and corresponds to a temperature increase of about 7°.

We must, therefore, conclude that the instrumental correction to the Hancock barometer of + 0.016 inch, as determined by Mr. Alexander, is subject to modification on account of temperature effect. When the temperature is low this cor-The means of the 217 readings made during the month are follows, viz:

Inches.

Inches.

Apparently at a temperature of about 85° the Hancock and when the temperature is high it should be decreased. This applies to all past records.

Apparently at a temperature of about 85° the Hancock and Weather Bureau barometers should read alike after the latter has been corrected for temperature. It might be possible to determine from the series of readings taken in March a more accurate table of corrections for temperature for the Hancock barometer than the one given in the Smithsonian tables; but this has not been attempted.

The Evelyn barometer readings are so discordant among themselves and with the Weather Bureau barometer readings that it is hardly worth while to discuss them. We can only say that there is a large and unknown error in most of the readings since 1868.—H. H. K.

MONTHLY STATEMENT OF AVERAGE WEATHER CONDITIONS FOR JUNE.

By Prof. E. B. GARRIOTT, U. S. Weather Bureau.

The following statements are based on average weather conditions for June, as determined by long series of observations. As the weather for any given June does not conform strictly to the average conditions, the statements can not be considered as forecasts.

On the North Atlantic Ocean June is a comparatively quiet month. Along the transatlantic steamer tracks the prevailing winds are from the southwest and severe storms are infrequent. From the Banks of Newfoundland to the American coast fog occurs with winds from the southeast quadrant, and the conditions which favor fog development obtain over some part of this region during fully one-half the days of the month. Icebergs are likely to be encountered over or near the Grand Banks as far south as latitude 40° or 41°.

In the West Indies the hurricane season does not begin until August; the wet season, however, continues from May to October. The typhoon season in the Philippine Islands

begins in May.

In the Pacific coast States of the United States the dry season practically begins in June, although July and August are the driest months of the year. In the Plateau region the monthly rainfall approaches the July and August minimum. In Arizona and New Mexico June is a dry month, but it is followed by the two wettest months of the year. In Montana and generally east of the Rocky Mountains the heaviest monthly rainfall of the year usually occurs in June.

Frost is unusual in the United States in June, and when it does occur it is confined to mountain districts and to the

northern tier of States.

RECENT PAPERS BEARING ON METEOROLOGY. W. F. R. PHILLIPS, in charge of Library, etc.

The subjoined titles have been selected from the contents of the periodicals and serials recently received in the library of the Weather Bureau. The titles selected are of papers or other communications bearing on meteorology or cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled; it shows only the articles that appear

¹ Not printed in detail.—Ed.